

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A bubble cap comprising:
a riser having a top;
a cap having a bottom and at least one side slot, the cap disposed in relation to the riser
such that ~~a fluid flows in a space between the riser and the cap~~ a liquid fluid and a
gaseous fluid flow co-currently upwardly in a space between the riser and the cap;
and
a divider disposed in the space, and extending to a length at least 50% of a distance
measured between the top of the riser and the bottom of the cap.
2. (Original) The bubble cap of claim 1 wherein the length of the divider is at least 70% of
the distance between the top of the riser and the bottom of the cap.
3. (Original) The bubble cap of claim 1 wherein the length of the divider is at least 90% of
the distance between the top of the riser and the bottom of the cap.
4. (Original) The bubble cap of claim 1 wherein the length of the divider is 100% of the
distance between the top of the riser and the bottom of the cap.
5. (Original) The bubble cap of claim 1 wherein the divider is attached to the riser.
6. (Original) The bubble cap of claim 1 wherein the divider is attached to the cap.
7. (Original) The bubble cap of claim 1 wherein the divider is attached to both the riser and
the cap.
8. (Original) The bubble cap of claim 1 wherein the bubble cap has at least two dividers.
9. (Original) The bubble cap of claim 1 wherein the bubble cap has at least three dividers.
10. (Original) The bubble cap of claim 1 wherein the bubble cap has at least six dividers.

11. (Original) The bubble cap of claim 1, further comprising a swirl director attached to the riser.
12. (Original) A mixing device having a plurality of bubble caps according to claim 1.
13. (Original) A mixing device having a bubble cap of claim 1 wherein the bubble cap, having at least one slot, is positioned with respect to a distribution plate and the bottom of the cap is positioned at least 1.5 inches from the distribution plate.
14. (Currently amended) A bubble cap, comprising:
a cap with at least one slot and a riser configured to provide the cap with a skirt height of no less than 1.5 inches, disposed such that a liquid fluid and a gaseous fluid flow co-currently upwardly in a space between the riser and the cap.
15. (Original) The bubble cap of claim 14, wherein the skirt height is no less than 2.5 inches.
16. (Original) The bubble cap of claim 14, wherein the skirt height is no less than 4 inches.
17. (Original) The bubble cap of claim 14 wherein the cap has a side that includes at least three slots.
18. (Original) The bubble cap of claim 14, wherein the slot has a length of at least 2.5 inches.
19. (Original) The bubble cap of claim 14, wherein the slot has a length of at least 3.5 inches.
20. (Original) The bubble cap of claim 14, wherein the slot has a length of at least 5 inches.

Claims 21-25 (Canceled)